

Appln. No. 10/048,057

Attorney Docket No. T2147-907642

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for secure communication between first and second entities interconnected via an internet network, said entities being associated with respective first and second processing systems connected to said internet network, said first system operating in client mode and said second system operating in server mode, said method comprising:

assigning respective permanent internet addresses to said first and second entities, making at least one application, located in a server of said second system, accessible to said first entity, and

encrypting data exchanged between said first and second entities in conformity with a desired security protocol, wherein said first and second systems include a communication protocol stack having at least one layer which allows for said encrypting step to be performed and said second entity hosting a WAP gateway utilizing a web server application interface and the server is capable of communicating, via the web server application interface adapter, directly with a first type of WAP application and via a web container and at least one specific application program interface with a servlet WAP application.

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2. (Previously Presented) A method according to claim 1, wherein said permanent IP addresses assigned to said first and second entities conform to an IPV6 Internet address protocol.

3. (Previously Presented) A method according to claim 2, wherein communications through said internet network take place in conformity with an IPV4 Internet address protocol, and wherein said method further comprises:

executing, in at least one of said first and second systems, an address conversion step which includes converting said IPV4 internet address protocol to said IPV6 internet address protocol.

4. (Previously Presented) A method according to claim 1, wherein said encrypting step is performed in conformity with an IPSec protocol in tunnel mode, in order to obtain secure data exchanges between said first and second entities, and wherein said IPSec protocol is used with an EPS mechanism for authenticating information sources.

5. (Previously Presented) A method according to claim 4, wherein said first entity is a user of said first system, wherein said method further includes a step for authenticating said user, and wherein said permanent IP address assigned to said first entity is used to identify said user.

6. (Previously Presented) A method according to claim 5, wherein communications through said network take place in data packet mode, and wherein said

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permanent IP address identifying said user is present in encrypted form in conformity with said IPSec protocol, in each of said data packets.

7. (Previously Presented) A method according to claim 1, wherein said first system is connected to a wireless transmission segment,
wherein communications between said first system and said second system take place in conformity with a WAP protocol, and
wherein said second system includes a WAP server and a unified interface between said WAP server and at least one application, said at least one application being located in said second system and being accessible by said first entity, and
wherein said WAP server is integrated into said second system as a web server.

8. (Previously Presented) A method according to claim 7, wherein said second system includes an additional module for performing two-way interface adaptation of structures, which makes it possible to support application interfaces used by web servers.

9. (Previously Presented) A method according to claim 7, wherein said first system includes a WAP browser.

10. (Previously Presented) A method according to claim 1, wherein said first system includes a mobile system,
wherein said method further includes assigning to said first system a temporary address, and initiating a dialog between said first system and a home agent connected to

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said internet network to correlate said permanent address assigned to said first entity with said temporary address, in conformity with said IPV6 protocol.

11. (Currently Amended) A system architecture for secure communication between first and second entities interconnected via an internet network, said entities respectively being associated with first and second data processing systems within a set of distributed systems connected to said internet network, said first system operating in client mode and said second system operating in server mode, said first and second entities being associated with permanent internet addresses, comprising:

a server included in said second system, said server comprising at least one application accessible to said first entity;

first and second communication protocol stacks respectively included in said first and second systems, each of said first and second communication protocol stacks comprising at least one address layer using a respective one of said permanent IP addresses and a logical layer for encrypting, in end-to-end mode in conformity with a given security protocol, data exchanged between said first and second entities and said second entity hosting a WAP gateway utilizing a web server application interface adapter and the server is capable of communicating, via the web server application interface adapter, directly with a first type of WAP application and via a web container and at least one specific application program interface with a servlet WAP application.

12. (Previously Presented) An architecture according to claim 11, wherein said address layer conforms to an IPV6 protocol.

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13. (Previously Presented) An architecture according to claim 12, wherein said internet network conveys data packets in conformity with an IPV4 protocol,

wherein each of said first and second protocol stacks includes a first address layer in the IPV6 protocol and a second address layer in the IPV4 protocol from which IPV6-compatible addresses are derived, in order to obtain exchanges in tunnel mode, and

wherein said logical layer in each of said first and second protocol stacks encrypts data packets exchanged between said first and second entities.

14. (Previously Presented) An architecture according to claim 11, wherein said logical layer in each of said first and second protocol stacks conforms to an IPSec protocol in tunnel mode, in order to obtain secure data exchanges between said interconnected first and second entities, and wherein said IPSec protocol is used with an EPS mechanism for identifying information sources.

15. (Previously Presented) A method according to claim 11, wherein said first system is connected to a wireless transmission segment wherein communications between said first system and said second system take place in conformity with a WAP protocol, wherein said second system includes at least a first module constituting a WAP server and a second module forming a unified interface between said WAP server and said at least one application, and wherein said WAP server is integrated into said second system as a web server.

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16. (Previously Presented) An architecture according to claim 15, wherein said second system includes at least one additional module for two-way conversion of data packets of structures in conformity with web or WAP protocols.

17. (Previously Presented) An architecture according to claim 15, wherein said first system is a mobile telephone terminal operating in a GSM standard, said mobile telephone terminal including a WAP type browser constituting a client and a display screen for displaying pages in WML-type language.

18. (Previously Presented) An architecture according to claim 15, wherein said first system is a mobile telephone terminal operating in a GPRS standard, said mobile telephone terminal including an Internet browser constituting a client and a display screen for displaying pages in WML-type language.